

Transparent BOPP film Heat-sealable Medium shrinkage

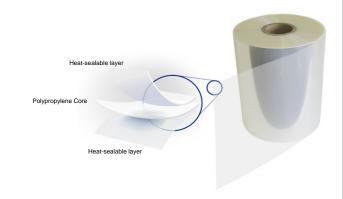


Main Characteristics

- Both sides heat-sealable from 105°C;
- No surface treatment;
- Optimum optical properties (gloss and transparency);
 Optimum performance in portfolio-type packing machines.

Typical Applications

- Overwrapping for food: bonbon boxes, cookies and food in general;
- Non-food overwrapping: toilet soap, toothpaste grouping;
 Overwrapping in general.



Properties		Methodology	Unit	Range	20TFW	25TFW	30TFW
			Physical Pr	operties			
				Target	20.0	25.0	30.0
Nominal Thickness		DIN 53370	μm	Min.	19.0	23.8	28.5
				Max.	21.0	26.3	31.5
			Gauge	Target	78.7	98.4	118.1
				Min.	74.8	93.5	112.2
				Max.	82.7	103.3	124.0
Unit Weight		ASTM D 4321	g/m²	Target	18.3	22.8	27.4
				Min.	17.3	21.7	26.0
				Max.	19.2	24.0	28.8
			lb/ream	Target	11.2	14.0	16.8
				Min.	10.7	13.3	16.0
				Max.	11.8	14.7	17.7
				Target	54.8	43.8	36.5
Yield		ASTM D 4321	m²/kg	Min.	52.2	41.7	34.8
			_	Max.	57.6	46.1	38.4
			in²/lb	Target	38503	30803	25669
				Min.	36670	29336	24447
				Max.	40530	32424	27020
Surface Treatment	Т	ASTM D 2578	dinas/cm	Target		NA	
				Min.		NA	
		NT ASTM D 1894	-	Target	0.23		
Coefficient of Friction	NT			Min.	0.18		
				Max.	0.30		
	"		Optical Pro	perties			
Haze		ASTM D 1003	%	Target		1.8	
				Max.		2.5	
Gloss (45°)		ASTM D 2457	u.b.	Target		95	
				Min.	85		
		•	Mechanical F	roperties			
Tensile Strenght	MD	ASTM D 882	N/mm²	Toward		160	
	TD			Target		240	
	MD		lbf/in²	Target		23206	
	TD					34809	
Elongation at Break	MD	ASTM D 882		Target		170	
	TD	ASTIVI D 662	%			50	
Shrinkage	MD	ASTM D 1204	%	T	6		
	TD			Target	4		
Sealing Range	NT	ASTM F 88	°C	Target	105 - 130		
			°F	Target	221 - 266		
Ozalia a Otaza alet		AOTA = 00	g/25mm or	Target	450		
Sealing Strenght NT		ASTM F 88	gf/in	Min.	300		
			Barrier Pro	perties			
TPVA 38°C / 90%UR		ASTM F 1249	g H ₂ O / (m².dia)	Target	≤ 6.0	≤ 5.5	≤ 4.5
WVTR 100°F / 90%RH		ASTM F 1249	g H ₂ O / (100in².day)	Target	≤ 0.39	≤ 0.35	≤ 0.29
TPO ₂ 23°C / 0%UR		ASTM D 3985	cm³ O ₂ / (m².dia)	Target	≤ 2100	≤ 1700	≤ 1500
OTD 72°E / 00/ DU	OTR 73°F / 0%RH		cm3 O ₂ / (100in2.day)	Target	≤ 135	≤ 109	≤ 96

Acronyms:
 MD: Machine Direction | TD: Transverse Direction;
 NT: Non Treated Layer | T: Treated Layer;
 NA: Not Applicable.

2. Additional:
The restrained information in this datasheet represent typical data, and does not constitute genuine warranty liability as far as the product process and or application. In case of doubts or development of other thicknesses or applications, consult your dealer or send e-mail to: contato@polofilms.com.br.



Food Contact Regulations

SEAL Family films comply with Mercosul, ANVISA, FDA (Food and Drug Administration) and the European Community legislations for applications involving direct contact with food. Full details are provided in the Declaration of Conformity. Customers intending to use SEAL Family films for applications intended to come into contact with food should request a copy of that document from POLO Films.

The MSDS (Material Safety Data Sheet), as well as the evaluation of conformity for contact with food from other legislations are also available upon request. Contact your dealer for any questions.

Storage and Transportation Terms & Conditions

All products are stored and transported in dry, covered and clean environments. It is recommended that storage and transportation take place at temperature around 30°C and 60% relative humidity.

- If the temperature and humidity are not as recommended, the following issues may occur:
 Decreased level of surface treatment, leading to printing and/or lamination difficulties;
 Decreased film transparency;
 Too low CoF, making processing and machinability difficult.

BOPP films are recommended to be kept at operating room temperature for 24 hours before use.

Dimensional Specifications / Product Validity

Width	Minimum: 1 mm Maximum: 1 mm (from standard width)
Outer Diameter*	Minimum: 10 mm Maximum: 10 mm (from standard diameter)
Core	Minimum: 1 mm Maximum: 1 mm (from standard diameter)
Splices per roll	Maximum: 1
% of Splices per order	Maximum: 30%
Shelf Life (after production)	9 months

^{*} For other dimensional information, consult your dealer

Polo Films Nomenclature



Unit Weight/ Thickness

Expressed in g/m2. Used for white/opaque films:

Expressed in µm. Used for transparent, matte and metallized films

Technology

T - Tenter | C - Cast | P - BOPET.

Main Feature

FW - Transparent heat-sealable for overwrapping.

Specialty

Not applicable.

Sealing

- 0 Not Sealable:
- 1 Sealing on the Inner Face;
- 2 Sealing on the Outer Face;
- 3 Sealing on both Sides.

Treatment

- 0 No Treatment;
- 1 Treatment on Inner Face;
- 2 Treatment on Outer Face;
- 3 Treatment on both Sides.